AUG 2 4 2004
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Figure 1a
(Prior Art)

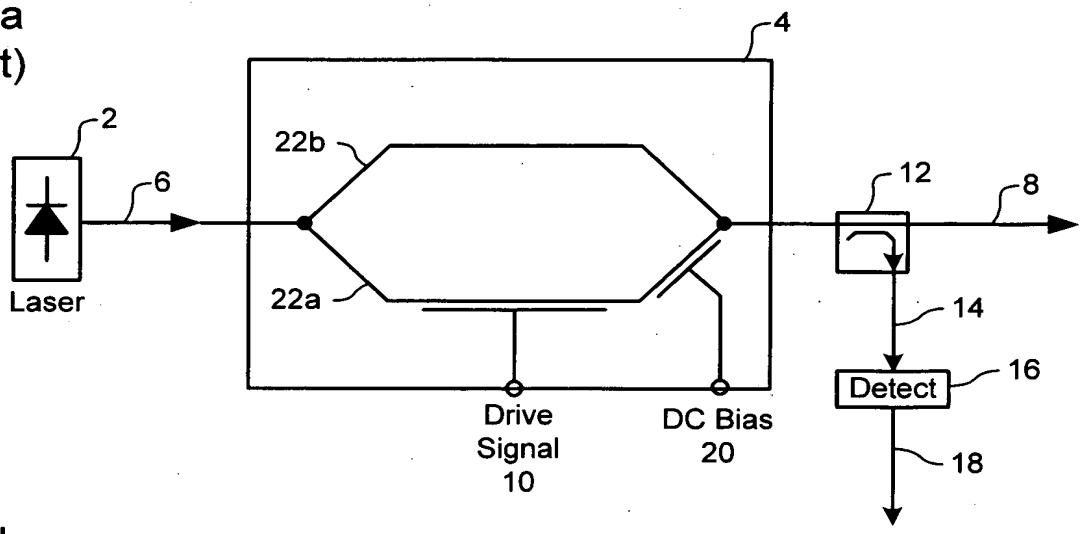


Figure 1b
(Prior Art)

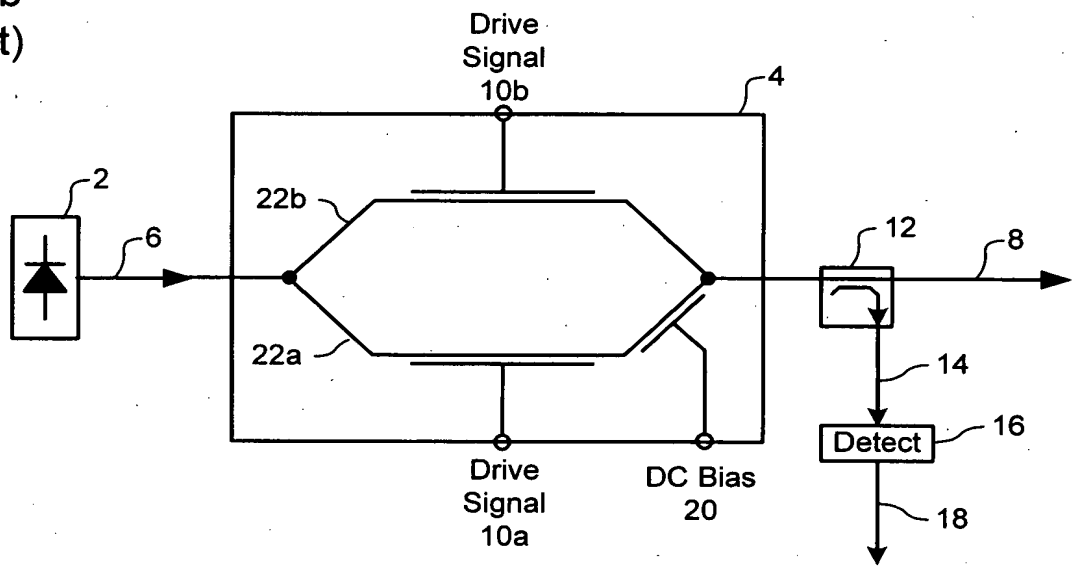


Figure 1c
(PriorArt)

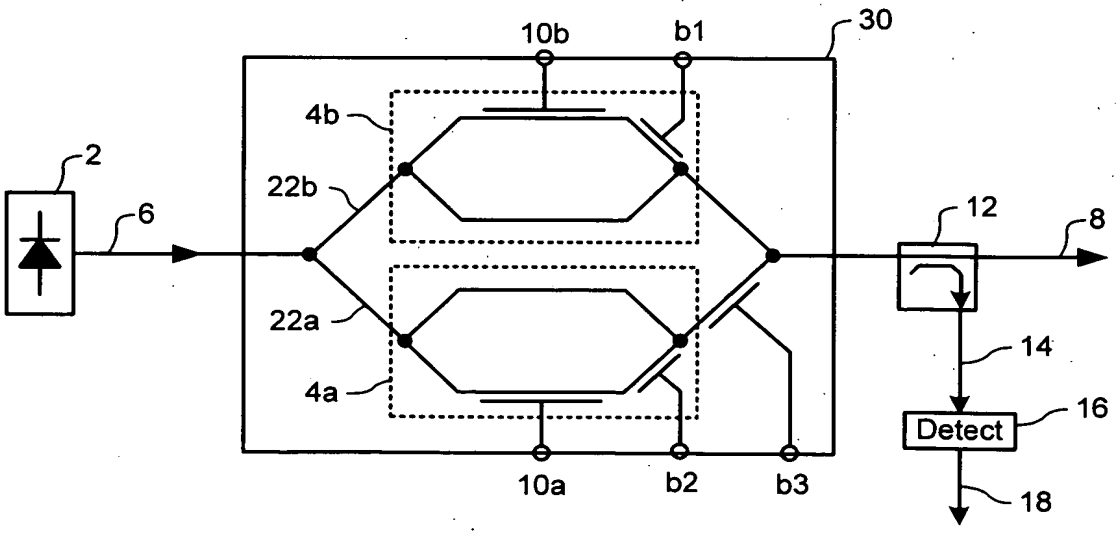


Figure 2
(Prior Art)

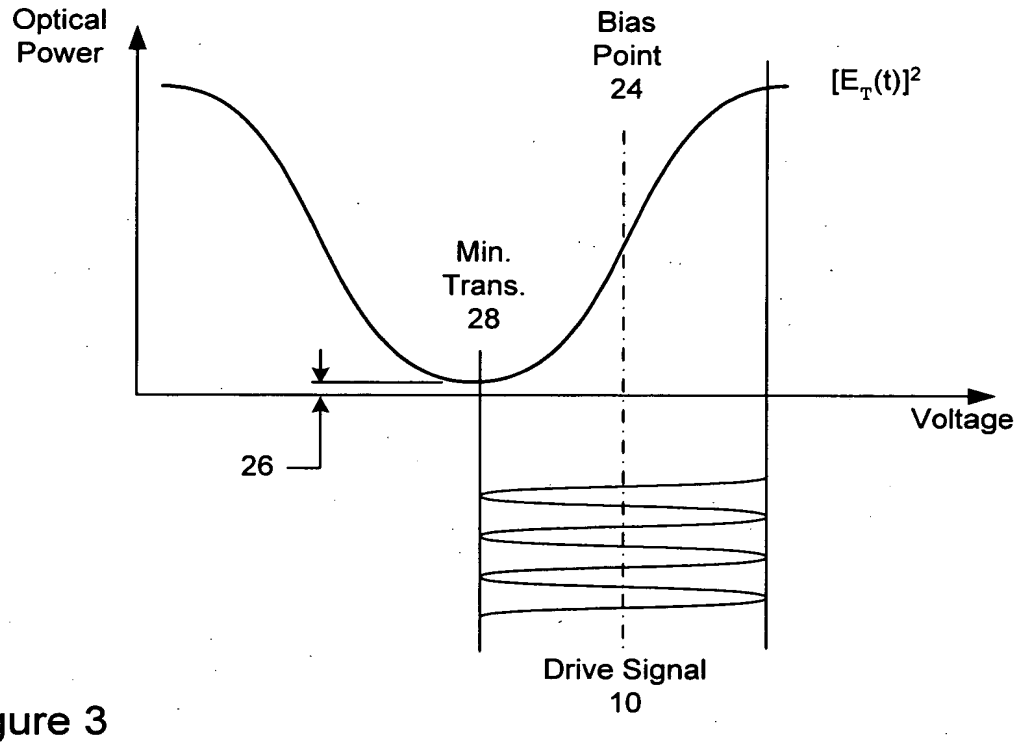


Figure 3
(PriorArt)

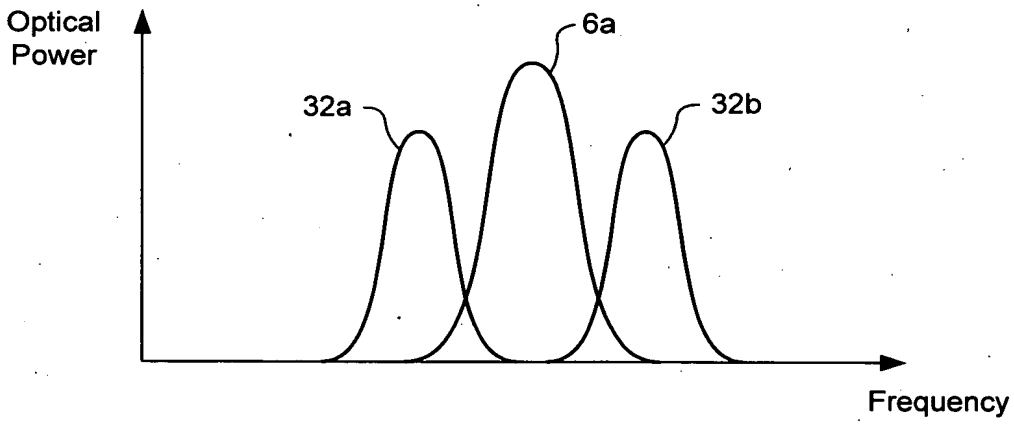


Figure 4

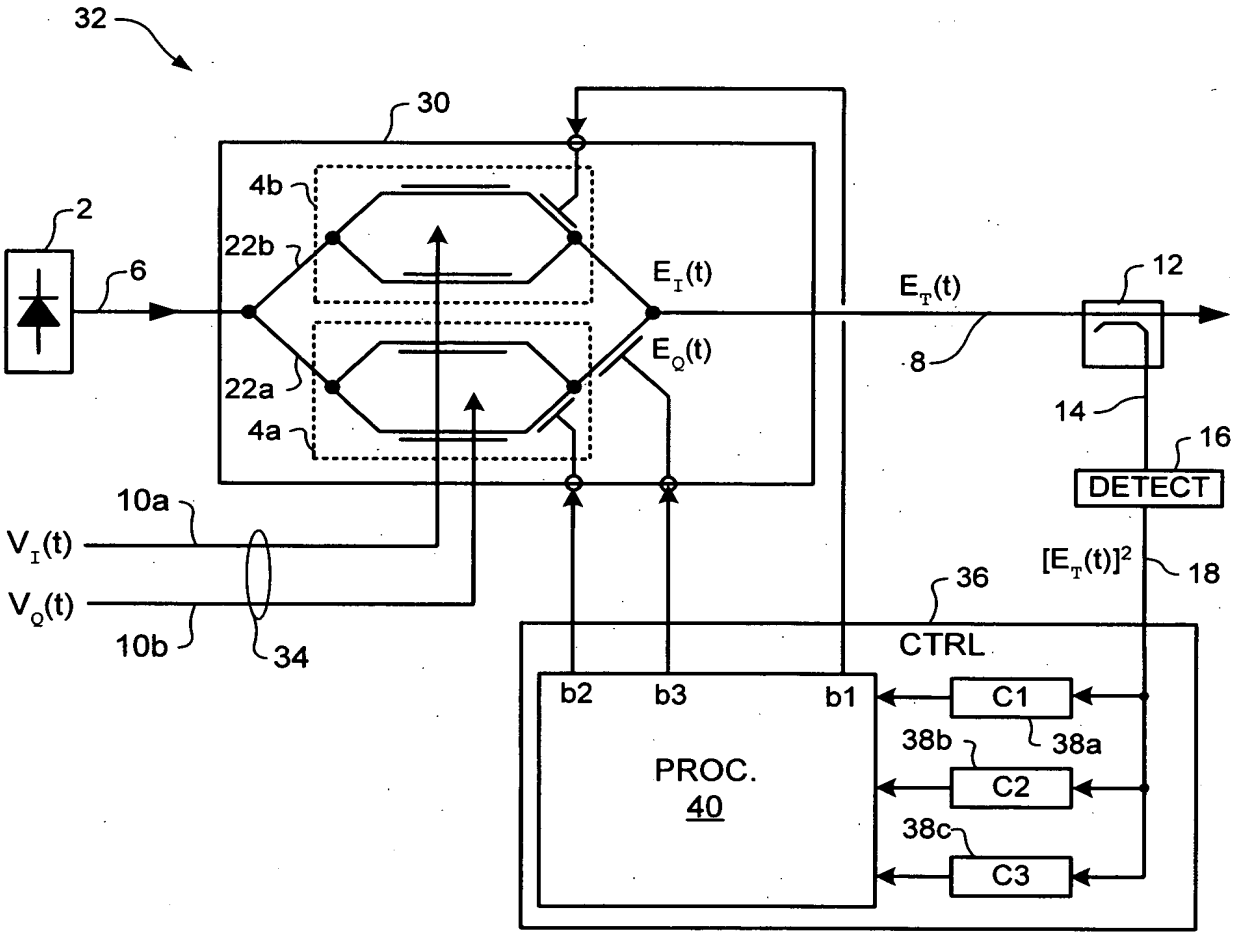

32
30
4b
22b
2
6
$E_I(t)$
$E_T(t)$
12
$E_Q(t)$
8
22a
4a
14
16
DETECT
10a
$V_I(t)$
$V_Q(t)$
10b
34
$[E_T(t)]^2$
18
36
CTRL
b2
b3
b1
C1
38b
38a
PROC.
40
C2
38c
C3

Figure 5

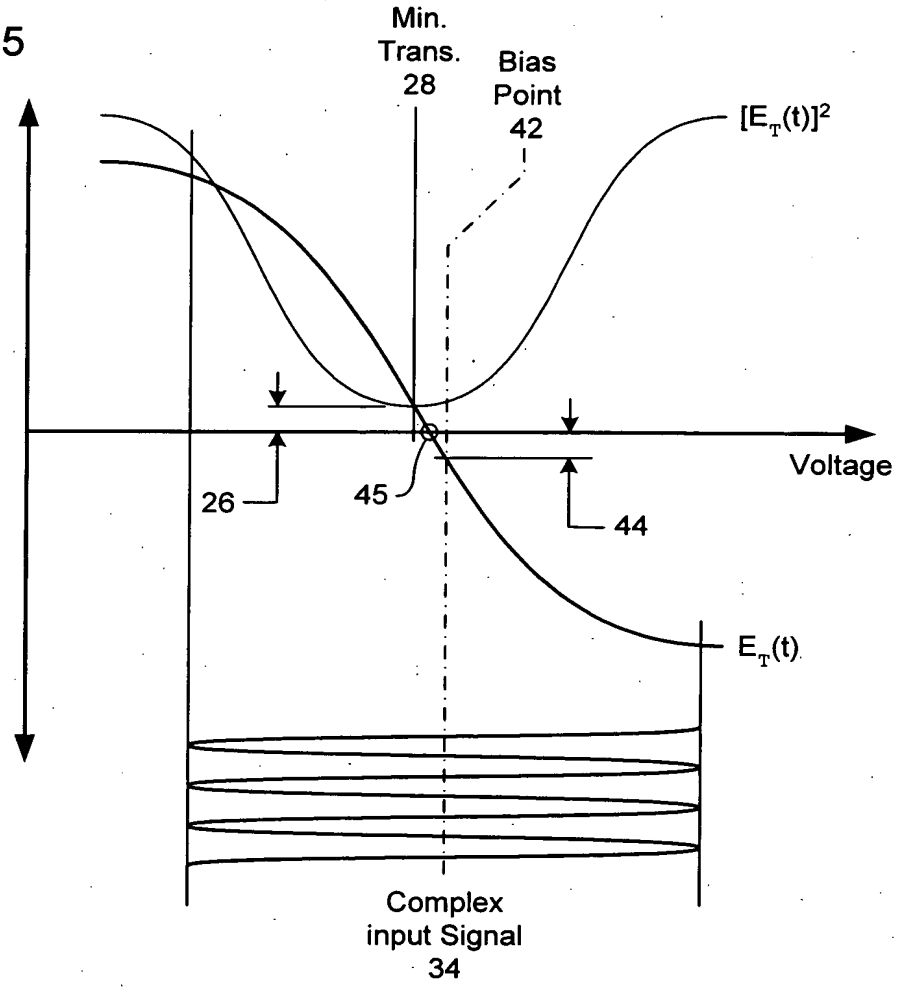


Figure 6

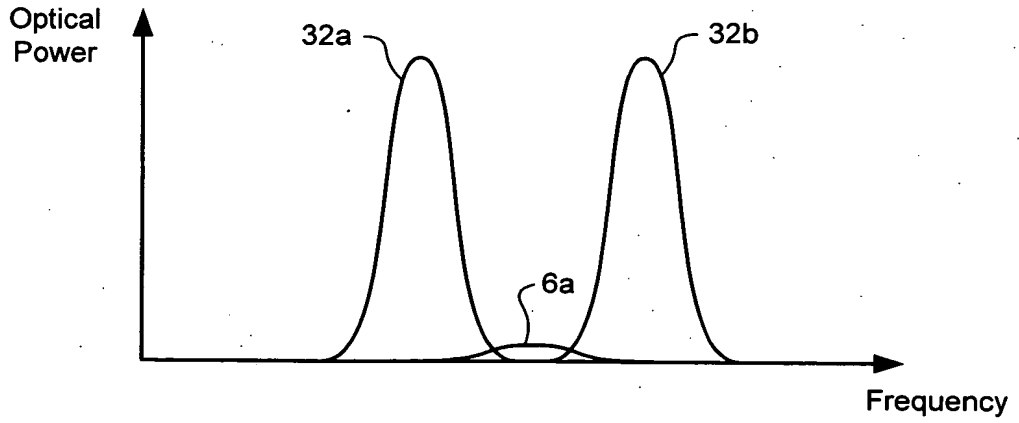


Figure 7

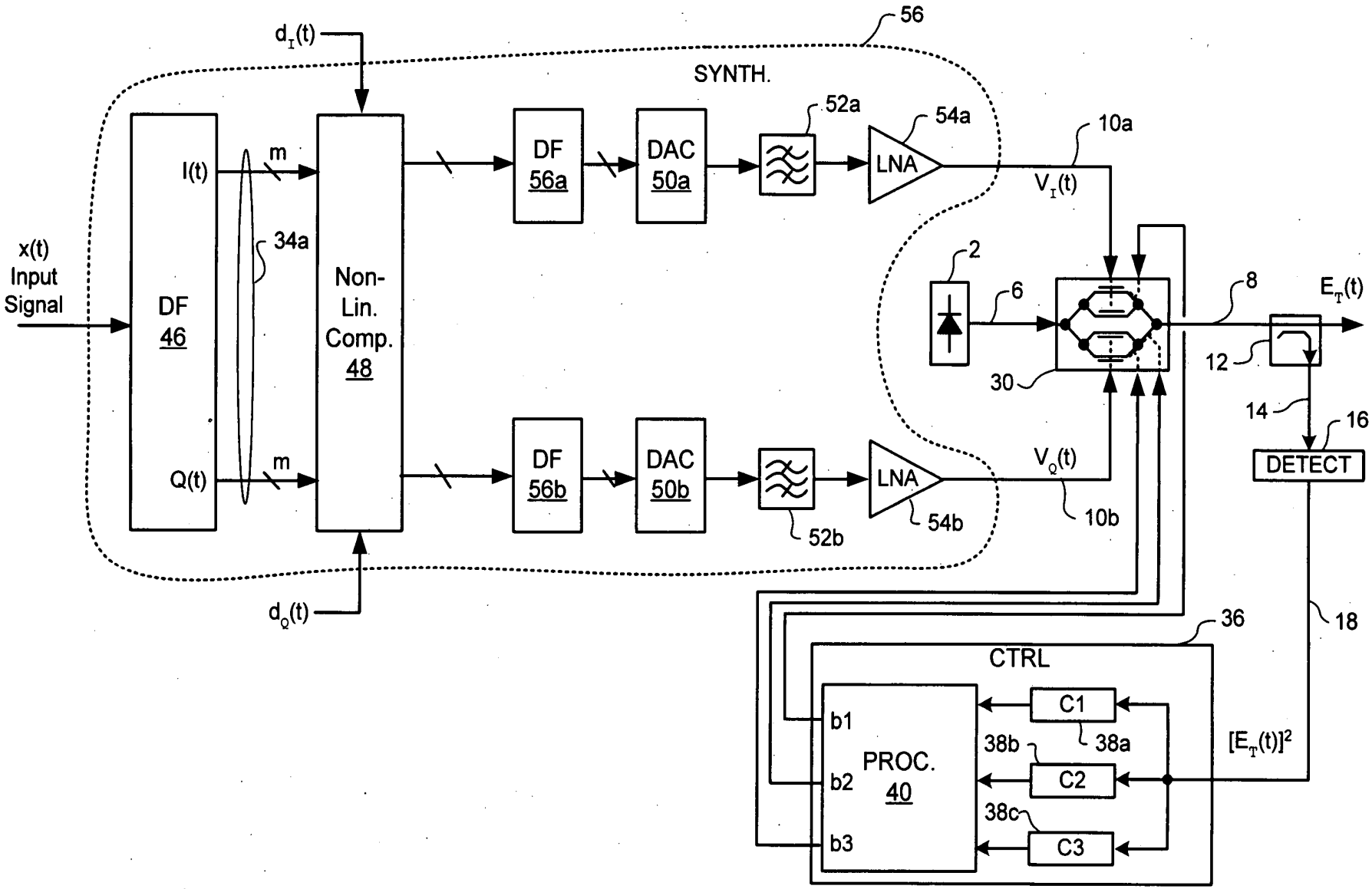
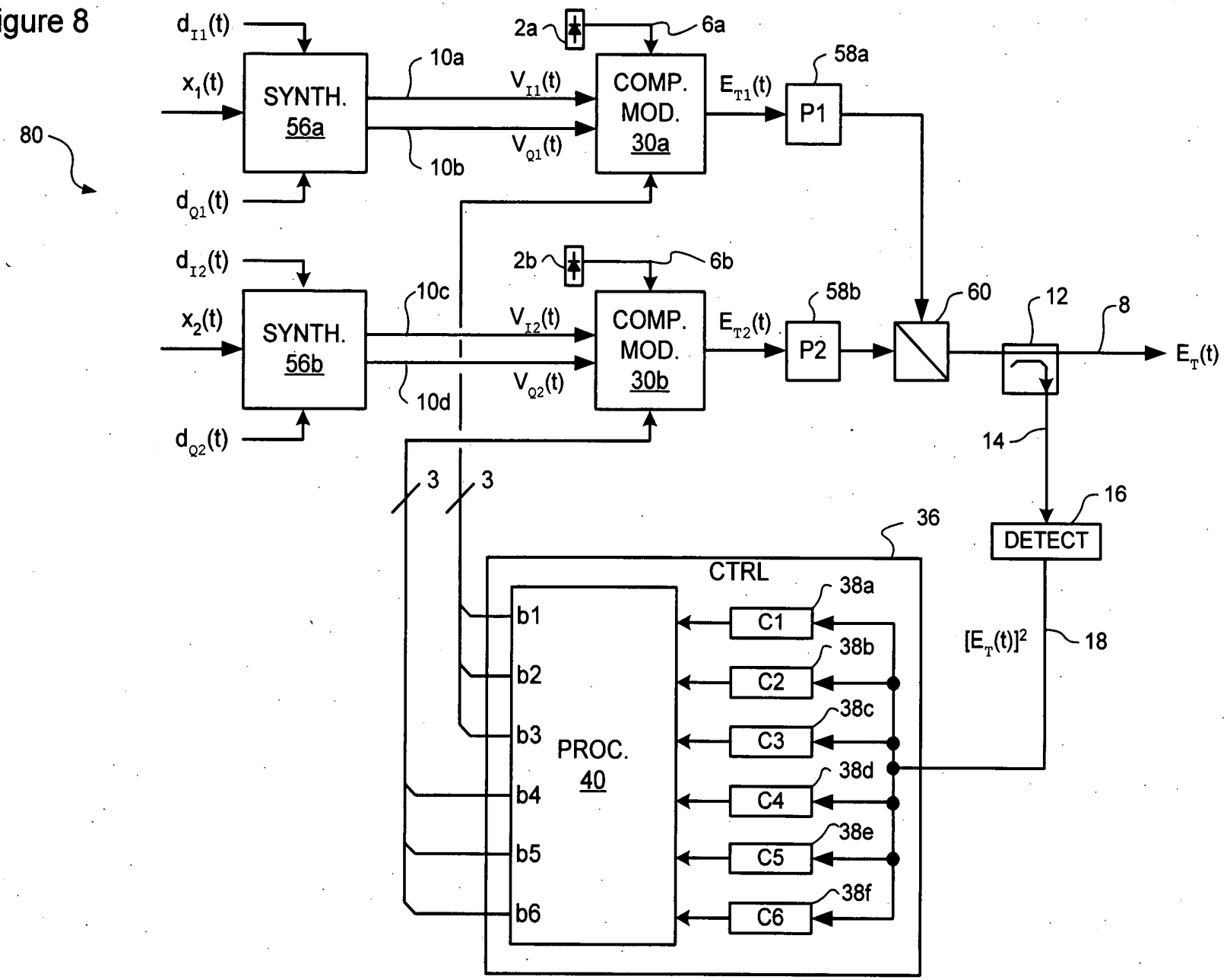

56
SYNTH.
$d_I(t)$
$d_Q(t)$
x(t)
Input
Signal
DF
46
I(t)
Q(t)
m
m
34a
Non-
Lin.
Comp.
48
DF
56a
DF
56b
DAC
50a
DAC
50b
52a
52b
LNA
LNA
54a
54b
10a
10b
$V_I(t)$
$V_Q(t)$
2
6
30
8
$E_T(t)$
12
14
16
DETECT
18
36
CTRL
PROC.
40
b1
b2
b3
C1
C2
C3
38a
38b
38c
$[E_T(t)]^2$

Figure 8


80
$d_{I1}(t)$
$x_1(t)$
SYNTH. 56a
$d_{Q1}(t)$
10a
10b
$V_{I1}(t)$
$V_{Q1}(t)$
2a
6a
COMP. MOD. 30a
$E_{T1}(t)$
58a
P1
$d_{I2}(t)$
$x_2(t)$
SYNTH. 56b
$d_{Q2}(t)$
10c
10d
$V_{I2}(t)$
$V_{Q2}(t)$
2b
6b
COMP. MOD. 30b
$E_{T2}(t)$
58b
P2
60
12
8
$E_T(t)$
14
16
DETECT
$[E_T(t)]^2$
18
3
3
36
CTRL
PROC. 40
b1
b2
b3
b4
b5
b6
38a
C1
38b
C2
38c
C3
38d
C4
38e
C5
38f
C6